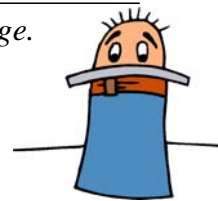


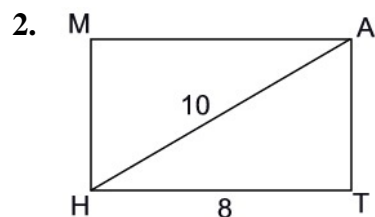
Pythagorean Theorem

Name _____

Directions: Solve the following problems. Find your answers on the scrambled answer page. Please show all work.

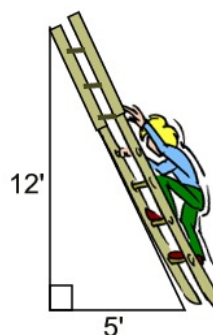


1. Find the hypotenuse of a right triangle whose sides are 12 and 16.



Given rectangle *MATH*
Find the length *AT*
if $HT = 8$ and $HA = 10$.

3.

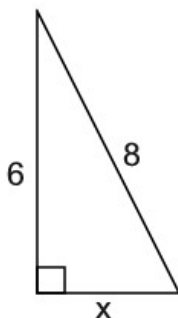


Find the length of the ladder.

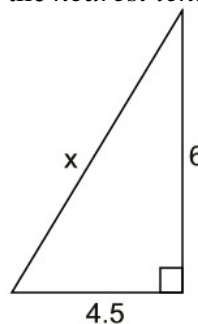
4. The hypotenuse of a right triangle is 5'' and one leg is 4'', find the length of the other leg.

5. Find, to the *nearest foot*, the length of the diagonal of a square whose side is 8 feet.

6. Find x to the *nearest tenth*.



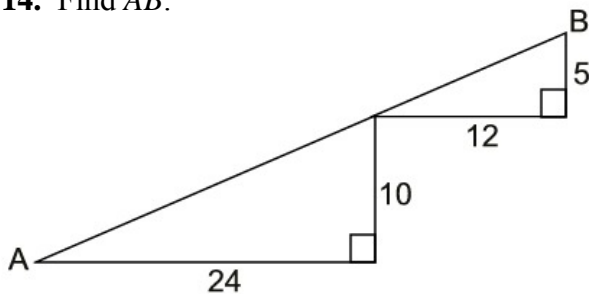
7. Find x to the *nearest tenth*.



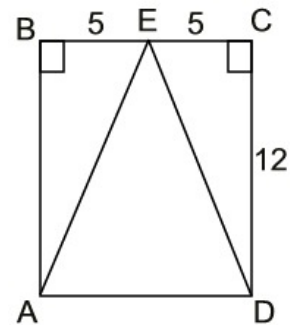
8. You travel 36 miles north and then 15 miles east. How far are you from your starting point?

9. The diagonal of a rectangle is 13 units. One side of the rectangle is 12". Find the length of the shortest side of the rectangle.
10. The base of an isosceles triangle is 30" and the altitude to that base is 8". Find the length of one of the two equal sides of the triangle.
11. The hypotenuse of a right triangle is 25 cm. If one of the legs is 20 cm., find the length of the other leg.
12. A baseball diamond is a square 90' on each side. Find the distance from home plate to second base to the *nearest tenth* of a foot.
13. Find the length of the diagonal of a rectangle whose length is 24" and whose width is 18".

14. Find AB .



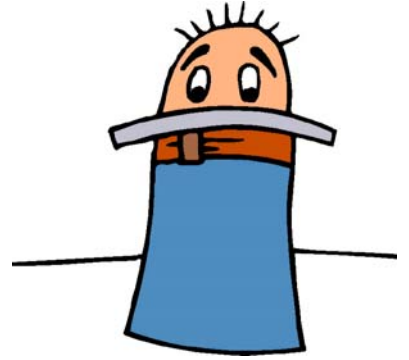
15. Given rectangle $ABCD$.
Find the perimeter of $\triangle AED$.



Pythagorean Theorem ANSWERS

39

7.5



6

20

5.3

3

13

36

30

127.3

5

11

17

39

15